TM

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TM

Model DA430
HYGRO-THERMOMETER
ANEMOMETER

User Manual

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INTRODUCTION

Congratulations on your purchase of a DA430 Digital Hygro-Thermometer Anemometer! You now own one of the most accurate, reliable, and highly regarded airflow, temperature, and humidity measurement instruments available today.

Pacer's model DA430 digital hygro-thermometer anemometer is a versatile instrument for measuring air velocity, temperature, and humidity in various applications such as HVAC, aerospace development, industrial process airflow, and fluids research.

The rugged yet precise air probe can be used in airstreams that have a wide range of humidity, temperature and contaminants without compromising air velocity measurement accuracy. The combination humidity and temperature probe gives accurate readings across a wide range of temperatures and humidity's.

Features include custom cable lengths, service temperatures up to 212˚F (100˚C) at the air probe, high reliability, and long life.

At the time of receipt, if more than 4 months has elapsed since the date of the original calibration, Miltronics will provide an initial complimentary calibration at the customer's request. If you elect to utilize this service, please include a copy of your dated proof of purchase and a copy of the original calibration certificate included with your unit. Call 603-352-0187 and request a Service/Repair (SR) number prior to shipping your unit.

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DA430 User Manual, PN 10140
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Warranty

This product is fully warranted against defective materials and/or workmanship for a period of one year after purchase, provided it was not improperly used. For your protection, please use this product as soon as possible. If returned, it must be securely wrapped, sent prepaid and insured to:

Miltronics Mfg. Svcs. Inc.
Attn: Pacer Instruments
95 Krif Road
Keene, New Hampshire 03431
USA

Please include a note with name, address, telephone number and description of the problem. Although we provide assistance on Pacer Instrument products both personally and through our literature, it is still the total responsibility of the customer to determine the suitability of the product for use in their application.

This manual is provided by Miltronics Mfg. Svcs., Inc. without any kind of warranty. Precautions have been taken in accurately preparing this manual; however, we neither assume responsibility for any omissions or errors that may appear nor assume liability for any damages that result from the use of the products in accordance with the information contained in the manual.

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SECTION 1 - SPECIFICATIONS

Ranges:

Air Probe AP275:	50 to 7800 ft/min	(feet per minute)
	0.2 to 40.00 m/sec	(meters per second)
Air Probe AP100:	300 to 6890 ft/min	(1.5 to 35.00 m/sec)
Relative Humidity (%RH):	5.0 to 95.0 %RH	
Temperature (using combination HTP202 probe):	-4° to 176°F (-20° to 80°C)	
Temperature (using optional RTD probe):	-148° to 1112°F (-100° to 600°C)	

Accuracy:

Air Velocity: **AP275:** ± 1.0% of reading ±1 digit
AP100: ±0.5% full scale **±**0.75% of reading
Relative Humidity: ± 2.0 %RH
Temperature: ± (0.3°C + 0.2% of reading in °C)
Temperature accuracy examples: ± 0.3°C at 20°C
± 0.5°F at 68°F

Resolution:

Air Velocity: 1 ft/min or 0.01 m/sec
Relative Humidity: 0.1 %RH
Temperature: 0.1˚F or 0.1˚C (1˚F below -99.0˚F)

Operating Temperature:

Instrument: 32˚ to 125˚F (0˚ to 50˚C)
Air Probes: -22˚ to 212˚F (-30˚ to 100˚C)
HTP202 Probe: -4˚ to 176˚F (-20˚ to 80˚C)

Power Supply: 3 AA alkaline batteries

Battery Life: Approx. 150 hours, without backlight

Battery check: Automatic low battery display

Display: 0.5” LCD, 4 digits, with LED backlight

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CALIBRATION

To maintain your instrument in top working order, we recommend that you send it back to us for calibration each year, beginning one year after purchase.

Our NIST-Traceable multi-point calibration services include ensuring the instrument performs within its accuracy tolerance, making any necessary adjustments, and inspecting all aspects of the instrument's functionality so that you'll have another year of dependable service. Calibration also includes a complimentary firmware upgrade so that you know you'll have the latest advances in accuracy and reliability in your instrument.

Additional points other than our standard calibration are also available from the factory. We can offer precise calibration tailored to your specific measurement needs using our state-of-the-art facilities and calibration equipment.

Please contact us or visit our website for the latest information on calibrating your instrument.

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Options Available (Instrument options must be factory installed):

- Protective Boot & Splash-Proof Seal for Instrument (P/N 10227)
- USB Communications for the Instrument (P/N 10223)
- RS232 Communications for the Instrument (P/N 10224)
- Analog 0-5 Volt Output for the Instrument (P/N 10222)
- Extra extension and/or flexible rods
- Custom cable lengths for the air probes

Additional Probe Options Available

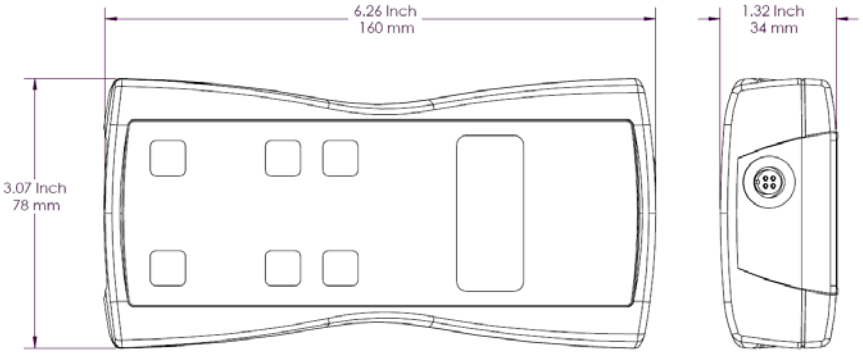
- Immersion RTD temperature probe (P/N PT211)
- Air RTD temperature probe (P/N PT212)
- Surface RTD temperature probe (P/N PT213)
- Penetration RTD temperature probe (P/N PT216)

Included:

- (1) DA430 Instrument
- (1) Vane-type probe head, choice of AP100 or AP275
- (1) HTP202 combination RH / temperature probe
- (3) Rigid extension rods with handle grip
- (1) Flexible extension rod
- (1) Probe connection cable, 5 ft.
- (3) Size AA 1.5V alkaline batteries
- (1) Hard-shell carrying case with foam liner
- (1) DA430 operation manual

Dimensions

INSTRUMENT



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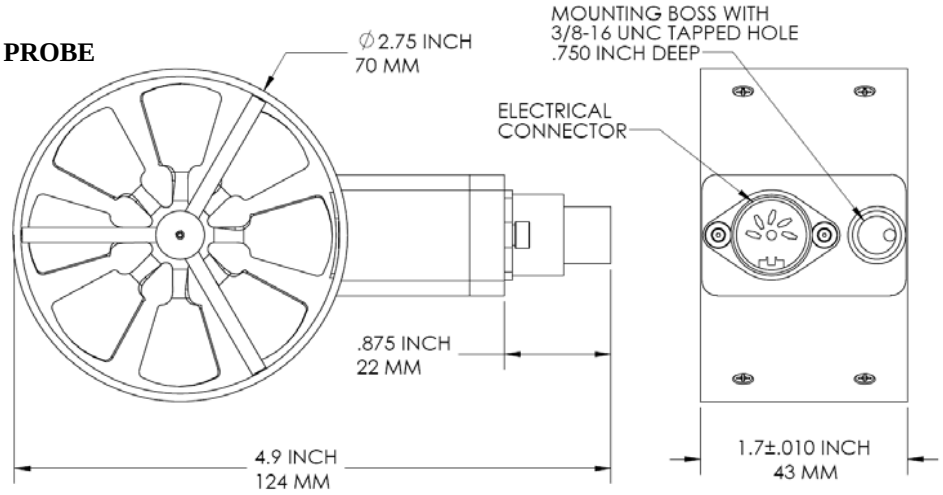
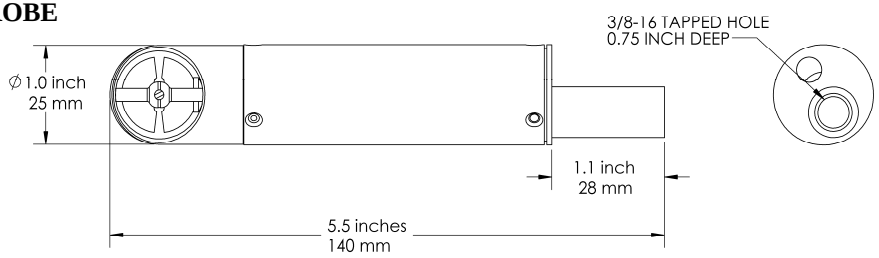
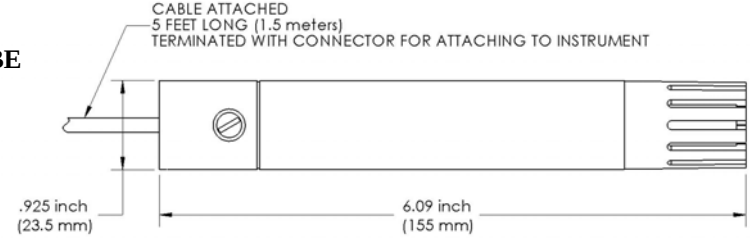
AP275 PROBE



AP100 PROBE



HTP202 PROBE



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Exporting and Graphing Data

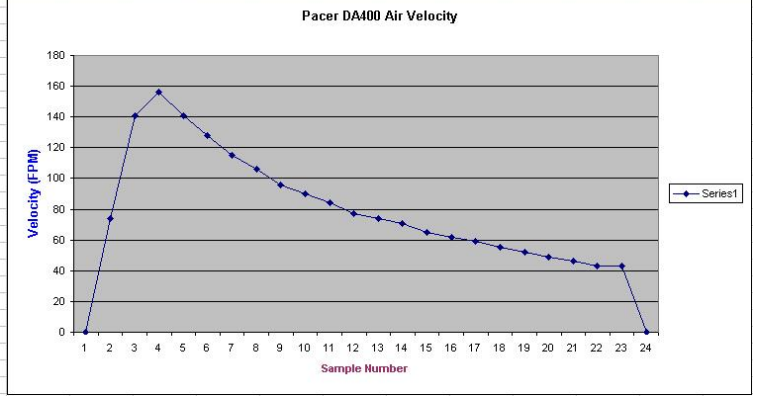
Exporting serial port instrument data from the Pacer Instrument to a spreadsheet application such as Microsoft Excel or OpenOffice Calc allows the data to graphed or recorded.

The simplest way to export the instrument data is to use a terminal emulator program, like Windows HyperTerminal, and either capture the serial data/text to a file (menu selection) or to manually highlight, copy, and then paste the instrument data into an editor such as Windows Notepad.

Once you have the instrument data in a file, save the file as a .CSV type (e.g., InstrumentData.csv).

Open the file in a spreadsheet application such as Microsoft Excel or OpenOffice Calc. A graph of the data as shown below can now be generated.

	A	B	C
1	Air	0	FPM
2	Air	74	FPM
3	Air	141	FPM
4	Air	156	FPM
5	Air	141	FPM
6	Air	128	FPM
7	Air	115	FPM
8	Air	106	FPM
9	Air	96	FPM
10	Air	90	FPM
11	Air	84	FPM
12	Air	77	FPM
13	Air	74	FPM
14	Air	71	FPM
15	Air	65	FPM
16	Air	62	FPM
17	Air	59	FPM
18	Air	55	FPM
19	Air	52	FPM
20	Air	49	FPM
21	Air	46	FPM
22	Air	43	FPM
23	Air	43	FPM
24	Air	0	FPM



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Below are examples of the formatted output data for Pacer's Premier Series Instruments (units may be different depending on the units selected on the LCD display):

Model DA400: *Air,47,FPM <CR>*

Model DA410 displaying in Air Velocity Mode: *Air,47,FPM <CR>*
Model DA410 displaying in Volume Flow Mode: *Air,251,CFM <CR>*

Model DA420: *Air,47 FPM<CR>*

Model DA430: *Air,47,FPM <CR>*

Model DH500:

NOTE: Units with USB or RS232 communications, output only Air data at this time. Temperature & Humidity data is not available on the output.

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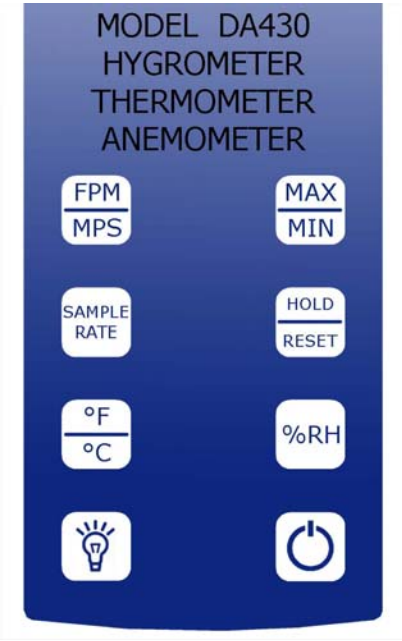
SECTION 2 – SWITCH FUNCTIONS



Pressing the ON/OFF key switches the instrument ON. Hold down the key for 2 seconds to switch the unit OFF. The unit will automatically power off after 30 minutes without any key presses. To disable auto power-off, hold down the power button during turn-on. The unit will flash AOFF, which means that the auto power-off has been disabled. The auto power-off is re-enabled each time the instrument is turned on.

Press the BACKLIGHT key to turn the LCD backlight on for 30 seconds. To turn the backlight on permanently, hold the backlight key down for 3 seconds. The LCD will flash. The backlight is now switched on permanently. To switch the backlight off, press the backlight key again.

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Press the TEMPERATURE key to display the current air temperature as measured by the HTP202 Combination Probe. To switch the units between degrees Fahrenheit (°F) and degrees Celsius (°C), press the TEMPERATURE key again. Either °C or °F will be displayed along with the reading.

Press the PERCENT RELATIVE HUMIDITY key to display the percent relative humidity in the ambient air as measured by the HTP202 Combination Probe. %RH will be displayed along with the reading.

Press the FPM/MPS key to display the current air velocity as measured by the air probe. To switch the measurement units from FPM (feet per minute, 1 FPM resolution) to MPS (meters per second, 0.01 MPS resolution), press the FPM/MPS key again. Either FPM or MPS will be displayed along with the reading.

Press the SAMPLE RATE key to change the measurement averaging rate ("sample rate") of the instrument **for air velocity only.**

2SEC	An average value of airspeed measurements during the preceding 2 seconds is displayed.
4SEC	An average value of airspeed measurements during the preceding 4 seconds is displayed.
8SEC	An average value of airspeed measurements during the preceding 8 seconds is displayed.
16 S	An average value of airspeed measurements during the preceding 16 seconds is displayed.

Note:
The sample rate for **temperature** and **humidity** readings is **always 2 seconds.**

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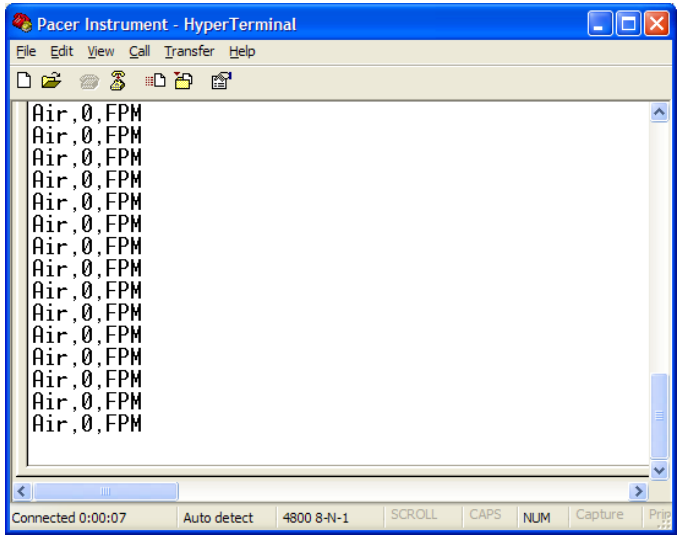
You will now receive data from your instrument. The graphic below shows the serial port output data from Windows HyperTerminal when connected to a Pacer DA400 Instrument.



Serial Port Settings

Bits per Second (Baud)	*9600*
Data bit	*8*
Parity	*None*
Stop bits	*1*
Flow Control	*None*

Serial Port Protocol

Data Output Interval	*One Second*
Data Format	*Comma-Separated Values (CSV)*
Measurement Units	*Same as Units shown on LCD Display*

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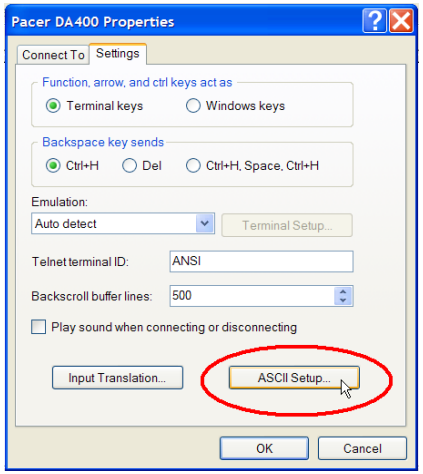
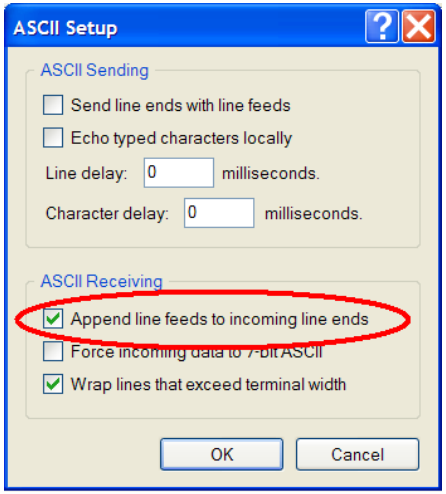
Click on File → Properties. You will see the window shown below. Click on the Settings tab and then click on ASCII Setup… as shown below.



Make sure that "Append line feeds to incoming line ends" is CHECKED as shown below. Click OK.



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MAX MIN Press the MAX/MIN key to record and display the maximum reading for either temperature, humidity, or air velocity. The maximum reading display will alternate with the letter "H" displayed with the sample rate. Press the MAX/MIN key again to record and hold the minimum reading. The minimum reading display will alternate with the letter "L" displayed with the sample rate.

For example:

1065 alternating with H 8 signifies that 1065 is the highest airspeed reading since the MAX/MIN key was pressed, and the sample rate is set to 8 seconds.

82 alternating with L 16 signifies that 82 is the lowest airspeed reading since the MAX/MIN key was pressed, and the sample rate is set to 16 seconds.

To exit MAX/MIN mode, press the SAMPLE RATE key.

HOLD RESET Press the HOLD/RESET key to freeze the current reading on the display. HOLD is displayed on the LCD and the reading is held.

Press the HOLD/RESET key a second time to clear this mode and return the unit to normal operation.

Press the HOLD/RESET key while in MIN/MAX mode to display BOTH the minimum and maximum readings since the MAX/MIN key was pressed. Once the HOLD/RESET key is pressed while in MAX/MIN mode, new readings are no longer recorded. To return to MAX/MIN mode, press the HOLD/RESET key again.

SECTION 3 – OPERATIONAL NOTES

9009 - **Out of Range Error:** If the HTP202 probe is exposed to temperatures or humidity levels outside of its range (see Section 1 – Specifications), the instrument will display 9009 when the instrument is displaying either temperature or relative humidity. This is the out-of-range error. This error will also be displayed if the instrument is turned on without the HTP202 probe attached and the reading is set to either temperature or relative humidity.

If the HTP202 probe is stored in a cold environment and is then exposed to a warm, humid environment while the probe is still cold, condensation will form on the humidity sensor. The humidity reading is invalid until the condensation has evaporated completely.

The temperature sensors will have a faster response time if they are exposed to a moving air stream. This is because forced convection will cool or heat the sensors faster than free convection. However, the humidity sensor is best used at flow rates lower than 20 liters per minute or 0.71 cubic feet per minute, based on the sensor manufacturer's recommendations.

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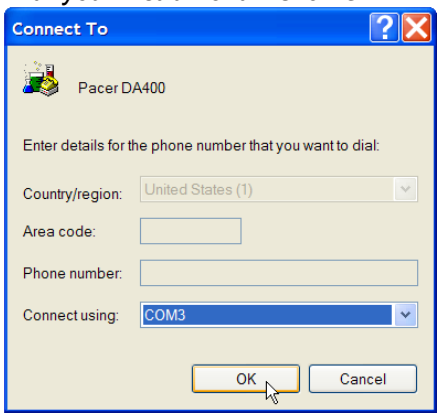
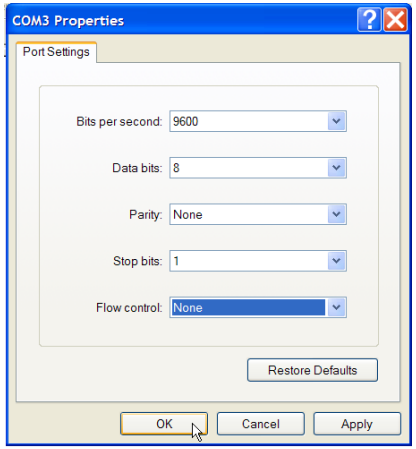
On the next window, next to "Connect using," select the COM port you that you are using with your instrument. Click OK.



In the next window, select the port settings as shown below and click OK. (The Serial Port settings are also listed at the end of this section).



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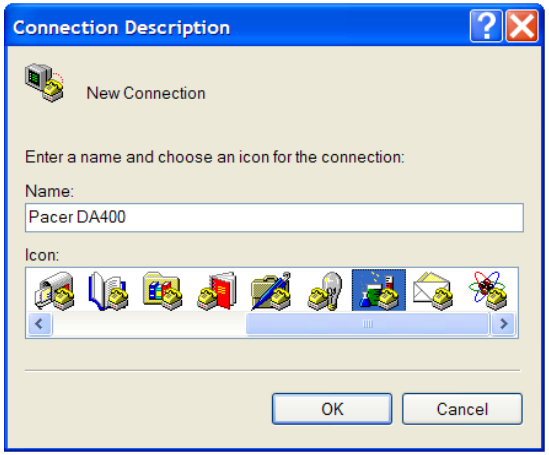
APPENDIX G – VIEWING AND CAPTURING DATA
(IF EQUIPPED WITH EITHER USB OR RS232 OUTPUTS)

There are many ways to capture the serial port data from the Pacer Instrument. The simplest method is to use a terminal emulator program.

Using a terminal emulator allows the serial COM port to be opened, with the above port settings, and real-time data to be viewed from the instrument. One such terminal emulator program is Windows HyperTerminal.

To launch Windows HyperTerminal, go to:
START → All Programs → Accessories → Communications → HyperTerminal

Enter a name for the Connection, such as "Pacer DA400" and choose an icon.



Click OK.

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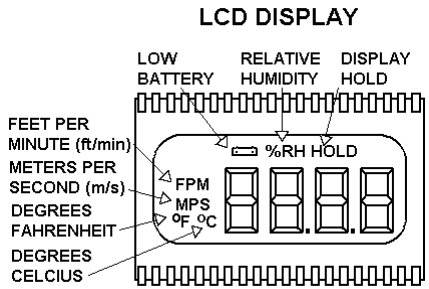
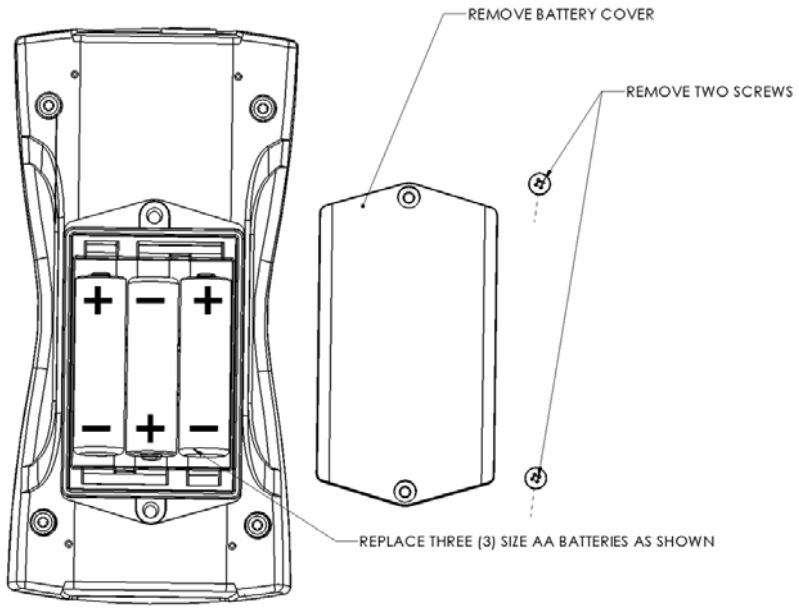
APPENDIX A – LCD DISPLAY SYMBOLS



APPENDIX B – BATTERY REPLACEMENT



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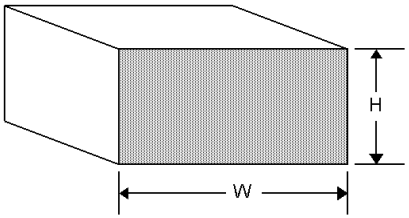
APPENDIX C – AIRFLOW VOLUME CALCULATIONS

To calculate cubic feet per minute (CFM) from a measured air velocity (FPM), you need the calculated cross-sectional area of the air flow stream:

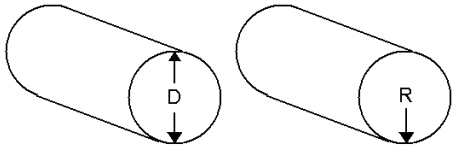
Volume Flow (CFM) = Velocity (FPM) X Area (sq ft).

In a rectangular duct this cross sectional area equals the Width times the Height.



W x H=A (cross-sectional area)

In a circular duct this cross section area equals the radius squared times π (3.14).



R x R x 3.14=A (cross-sectional area)

To convert an area calculated in square inches to an area calculated in square feet (which is required for the Volume Flow equation above) divide by 144: (area in sq in.)/144 = (area in sq ft.).

Example: The air duct is rectangular, the width is 24 in. and the height is 12 in. The air velocity reading through the duct is 450 FPM. Calculate the Volume Flow.

Step 1: Cross-sectional area = 24 in. x 12 in. = 288 sq in.
Step 2: 288 sq in /144 = 2 sq ft.
Step 3: Volume flow = Air Velocity x Area, therefore,
Volume flow rate = 450 FPM x 2 sq ft. = 900 CFM.

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APPENDIX F – RS232 COMMUNICATIONS (IF EQUIPPED)

If the instrument is equipped with the RS232 Communications option, there will be a three pin male connector on the bottom of the instrument. Also, an RS232 cable will be included with the instrument. This cable will have a three pin female connector on one end and a DB9 Female connector on the other end.

RS232 Data Output – Instructions for Use

STEP 1: Connect the RS232 cable (included) to the female connector on the bottom of your instrument. Connect the other end to an RS232 port on your computer.

STEP 3: Turn the Instrument ON.

STEP 4: Verify that the Instrument has been set up as a RS232 Serial Port with a unique COM port number. (You only need to do this once). For Windows users, open the Windows Device Manager (found in Control Panel) and verify that a serial port exists.

You are now ready to capture the data being measured by your instrument.

Please refer to **Appendix F – Viewing and Capturing Data** *for further instructions.*

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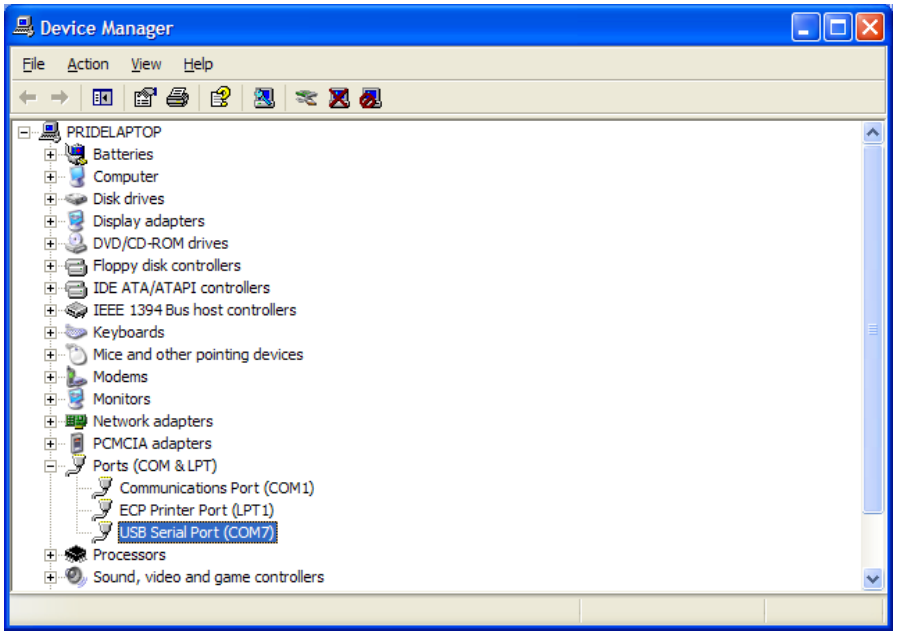

You are now ready to capture the data being measured by your instrument.

Please refer to **Appendix G – Viewing and Capturing Data** *for further instructions.*

NOTE: Units with USB or RS232 communications, output only Air data at this time. Temperature & Humidity data is not available on the output.

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APPENDIX D – ANALOG OUTPUTS (IF EQUIPPED)

If the instrument is equipped with the analog output option, there will be a five-pin connector on the bottom of the instrument. Also, an analog output cable will be included with the instrument. This cable will have a five-pin connector on one end and four tinned wires on the other end.

The instrument will output a Voltage between 0 and 5 Volts that corresponds to the Air Velocity, Temperature, and Humidity measured by the instrument. The output range, pin assignments, and wire colors are given in the table below. Also shown is a block diagram of the analog output circuit.

Wire Color	Pin #	Function	Analog Output Voltage Range	Corresponding Measurement Range	Equation* to convert from Volts (*V*) to Measurement Value
BLK	1	Ground	--- N/A ---	--- N/A ---	--- N/A ---
GRN	2	Air Velocity	0 to 5 Volts	0 to 10,000 FPM	Air Velocity = 2000×*V*
GRY	3	% Relative Humidity	0 to 5 Volts	0 to 100 %RH	Relative Humidity [%] = 20×*V*
WHT	4	Temperature	0 to 5 Volts	-20°C to 80°C	Temperature [°C] = 20×*V* – 20

*To convert from Volts to Air Velocity in Feet per Minute, multiply by 2000.
- ► For example, an analog output of 2.375 Volts on the green wire means that the instrument is measuring an air velocity of 4750 feet per minute (FPM).
- ► 2.375 Volts × 2000 = 4750 FPM

*To convert from Volts to Percent Relative Humidity (%RH), multiply by 20.
- ► For example, an analog output of 3.722 Volts on the gray wire means that the instrument is measuring a relative humidity of 74.44 %RH.
- ► 3.722 Volts × 20 = 74.44 %RH

*To convert from Volts to Temperature in degrees Celsius (°C), multiply by 20 and subtract 20.
- ► For example, an analog output of 3.458 Volts on the white wire means that the instrument is measuring a temperature of 49.16 °C.
- ► 3.458 Volts × 20 – 20 = 49.16 °C

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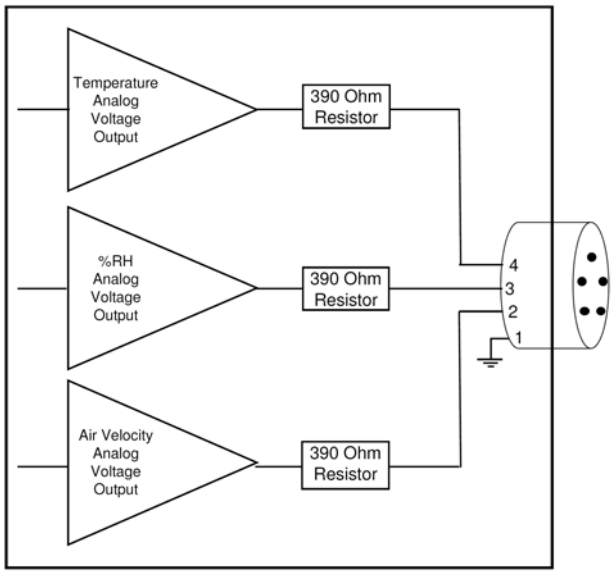
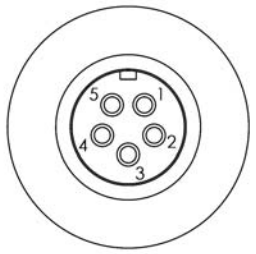
Note: When using analog outputs, there is an **additional ±1% error** in the analog output voltage. This is in addition to the normal measurement error.

- For example, an air velocity reading of 500 FPM would normally have an accuracy of ±1% of reading ±1 digit (±6 FPM) when the data is viewed on the LCD display.
- With the additional error associated with the analog output voltage, the effective accuracy of the analog output for this air velocity measurement will be ±2% of reading ±1 digit (±11 FPM).

Custom Analog Voltage Outputs are also available – contact Pacer for details.

Analog Output circuit block diagram and connector pin assignment





ANALOG OUTPUT CONNECTOR PINOUT DIAGRAM

Mating Cable Connector:
Binder Part No. 99-0413-00-05

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APPENDIX E - USB DATA OUTPUT (IF EQUIPPED)

If the instrument is equipped with the USB Communications option, there will be a four pin male connector on the bottom of the instrument. Also, a USB cable will be included with the instrument. This cable will have a four pin female connector on one end and a USB Type-A connector on the other end.

USB Data Output – Instructions for Use

STEP 1: Install a Virtual COM Port (VCP) Driver on your computer. Free VCP drivers can be downloaded for Windows, Linux, and MAC from FTDI Ltd on their website:
http://www.ftdichip.com/Drivers/VCP.htm

We recommend downloading the setup executable, which automatically runs and configures the drivers for you.

STEP 2: Connect the USB cable (included) to the male connector on the bottom of your instrument. Connect the other end to a USB port on your computer.

STEP 3: Turn the Instrument ON.

STEP 4: Verify that the Instrument has been set up as a USB Serial Port with a unique COM port number. (You only need to do this once)

For Windows users, open the Windows Device Manager (found in Control Panel) and verify that a USB serial port exists as shown below.